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Andrews, Emerson and others, than the longer period usually ascribed to this work. A 'Note on Certain Copper Minerals,' by A. W. Winchell, describes chalcopyrite and bornite found as an accidental furnace product replacing the iron rails in a calciner at a copper mine in Montana. The editorial comment includes an obituary notice with a short biography of Edw. W. Claypole, of Pasadena, California.

THE first number of a journal devoted to biological chemistry, entitled *Beiträge zur chemischen Physiologie und Pathologie—Zeitschrift für die gesamte Biochemie*, and edited by Dr. Franz Hoffmeister, professor of physiological chemistry at Strassburg, was issued recently. Its appearance may be interpreted as the outcome of the increasing application of chemical methods to the solution of biological and pathological problems.

SOCIETIES AND ACADEMIES.

NATIONAL ACADEMY OF SCIENCES.

THE National Academy held its autumn meeting at the University of Pennsylvania, Philadelphia, on November 12, 13 and 14. The papers entered to be read were as follows:

'Note on Linear Force exerted by Growing Crystals': GEORGE F. BECKER.

'Note on the Orogenic Theory of Tilted Blocks': GEORGE F. BECKER.

'On the Vaso-motor Supply of the Lungs': HORATIO C. WOOD, JR. (Introduced by George F. Barker.)

'Biographical Memoir of Frederick Augustus Genth': GEORGE F. BARKER.

'On the Pseudo-catalytic Action of Concentrated Acids': JAMES M. CRAFTS.

'On the Use of the Stereographic Projection in Making Accurate Maps; with Criticism of some Recent Methods of Map Projection': SAMUEL L. PENFIELD.

'On the Logic of Research into Ancient History': CHARLES S. PEIRCE.

'Observations on Tungsten': EDGAR F. SMITH.

'The Monatomic Gases': GEORGE F. BARKER.

'Snake Venom in Relation to Hæmolysis, Bacteriolysis and Toxicity': S. WEIR MITCHELL and SIMON FLEXNER.

'The Tendency of Complex Chemical Radicals to control Crystallization because of their Mass Effect; a Study in Isomorphism': SAMUEL L. PENFIELD.

'On the Nature of the Double Halides': IRA REMSEN.

'Biographical Memoir of General John Newton': CYRUS B. COMSTOCK.

'Dolichocephaly and Brachycephaly as the Dominant Factors in Cranial Evolution': HENRY F. OSBORN.

'Cranial Evolution of *Titanotherium II.*': HENRY F. OSBORN.

'Latent or Potential Homology': HENRY F. OSBORN.

'A New Gauge for the Direct Measurement of Small Pressures': EDWARD W. MORLEY and CHARLES F. BRUSH.

'Transmission of Heat through Vapor of Water at Small Pressures': EDWARD W. MORLEY and CHARLES F. BRUSH.

'On the Newer Forms of Incandescent Electric Lamps': GEORGE F. BARKER.

'On Quadrant Electrometry with a Free Light Needle highly charged through a Conductor of Ionized Air': CARL BARUS.

'On Nuclear Condensation in the Vapor of Non-Electrolytes like Benzene; and on Graded Condensation': CARL BARUS.

'The Work of the International Association of Academies': HENRY L. BOWDITCH.

'A Method of Rearing Marine Larvæ': CASWELL GRAVE. (Introduced by William K. Brooks.)

THE ACADEMY OF SCIENCE OF ST. LOUIS.

At the meeting of the Academy of Science of St. Louis, on the evening of November 4, 1901, Professor Alexander S. Chessin spoke 'On the Motion of a Top, taking into Account the Rotation of the Earth,' giving an abstract of his researches on the earth's rotation as manifested in the motion of bodies on its surface, the details of which he hoped to present shortly in a series of papers.

Two persons were elected to membership in the Academy. WILLIAM TRELEASE,

Recording Secretary.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY.

THE 137th meeting of the Society was held on November 12, 7:15 P. M., in the chemical lecture room, Person Hall, University of North Carolina. The following papers were read:

'A Short Cut Percentage Calculation': E. V. HOWELL.

'Cold Light': J. W. GORE.

CHAS. BASKERVILLE,

Secretary.